

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) An apparatus for cardiac defibrillation which comprises an external circuit and an implantable circuit; the external circuit including an induction transmitting coil and signal generating means for applying radio frequency pulses of predetermined shape to the transmitting coil; the implantable circuit including an induction receiving coil for receiving pulses when the two coils are in proximity, and a rectification circuit having an input connected to the receiving coil and an output driving electrodes implantable in the heart.
2. (currently amended) An apparatus according to Claim 1, for use in atrial defibrillation, in which the power transmitted per pulse is less than about 5J and the radio frequency is in the range 3-30 MHz, ~~preferably about 7 MHz.~~
3. (original) An apparatus according to Claim 1 or Claim 2, in which the signal generating means comprises a radio frequency generator switched or gated under the control of a pulse generation and shaping means which in turn is responsive to an ecg synchronisation signal.
4. (original) An apparatus according to Claim 3, in which the ecg synchronisation signal is provided via a telemetry transmitter implanted in the patient.
5. (currently amended) An apparatus according to ~~any preceding claim~~ Claim 1, in which the external circuit further includes a telephony link by which the ecg may be transmitted to, and/or the apparatus controlled from, a remote location.

6. (currently amended) An apparatus according to ~~any preceding claim~~ Claim 1, in which the external and implantable circuits include impedance matching components to achieve a high degree of tuning.
7. (original) An apparatus according to Claim 6, in which the inductive coupling is tuned to resonance.
8. (currently amended) An apparatus according to Claim ~~8~~ 7 in which the inductive coupling is tuned to resonance by use of series resonance in the external circuit and parallel resonance in the implantable circuit.
9. (currently amended) An apparatus according to ~~any preceding claim~~ Claim 1, in which the implantable circuit contains only passive components.
10. (original) A method of cardiac defibrillation which comprises transmitting pulses of controlled shape and energy transdermally by high frequency magnetic induction to a substantially passive implanted circuit which includes electrodes implanted in the heart.
11. (original) The method of Claim 10, in which the electrodes are implanted to provide atrial defibrillation.
12. (new) The apparatus according to Claim 2 wherein said radio frequency is about 7 MHZ.